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ABSTRACT

Chapter 1 programs in Arkansas are evaluated in this report. The federally funded program provides financial assistance to state and local educational agencies to meet the needs of educationally deprived children residing in districts with high concentrations of low-income families. This report lists federal requirements for state compliance with Chapter 1 and provides information about the level of involvement, service population, enrollment, and ethnic distribution of participants. Data on funding for instructional programs, cost per pupil, and staff are presented and the process for measuring student achievement is described. One figure and 14 tables are included. (LMI)

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EVALUATION OF

CHAPTER 1

ARKANSAS DEPARTMENT OF EDUCATION

IN

FEDERAL PROGRAMS

ARKANSAS

LITTLE ROCK, ARKANSAS

1989-90

EA 024 200

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THE CHAPTER 1 CHALLENGE: ARKANSAS' CONTRIBUTION 1989-90

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WHAT IS CHAPTER 1?

Chapter 1 of Title I of the Elementary and Secondary Education Act of 1988 (ESEA) is the largest federally-funded program designed to provide services to elementary and secondary students. The legislation authorizes services above and beyond those provided by the regular school program. Initially enacted as Title 1 of the Elementary and Secondary Education Act of 1965, Chapter 1 provides "...financial assistance to State and local educational agencies to meet the special needs of educationally deprived children..." who reside in areas with a high concentration of children from low income families. Chapter 1 funds are allocated to districts on the basis of a formula that includes the number of children from low income families residing in that area. Within a district, however, services are provided to students on the basis of educational need rather than family income.

All Chapter 1 programs must meet the following federal requirements:

Needs comprehensive

All Chapter 1 programs must conduct a needs assessment each year and provide services to students who are identified as having the greatest educational needs.

Supplementary services

Chapter 1 services are intended to be supplementary to the regular educational program and may not take the place of services provided by the district or state.

Concentration of services

The law requires that Chapter 1 programs be of sufficient size, scope and quality to "give reasonable promise of substantial progress toward meeting the special educational needs of the children being served" within the scope of available resources.

Instructional services

Chapter 1 is primarily an instructional program, but a limited amount of essential support services may be provided with available Chapter 1 funds.

Parental involvement

Programs must be designed and implemented with the consultation of parents.

Evaluation

All Chapter 1 programs must be evaluated and the results must be used for program improvement. Evaluation models enable the results of local evaluations to be summarized and reported at the state and national levels.

Program improvement

Chapter 1 programs that show aggregate losses in either the basic or advanced skills will trigger program improvement. Programs that do not meet their objective of "desired" outcomes also trigger program improvement. The program improvement plan "must be fully implemented as soon as possible but no later than the beginning of the second school year after the school year..." that triggered the need for improvement. In the case of second year program improvement, it must be implemented by the start of the next school year.

The FY '90 evaluation identified 124 LEAs in need of program improvement. There are 170 schools in first year and 60 schools in second year program improvement.

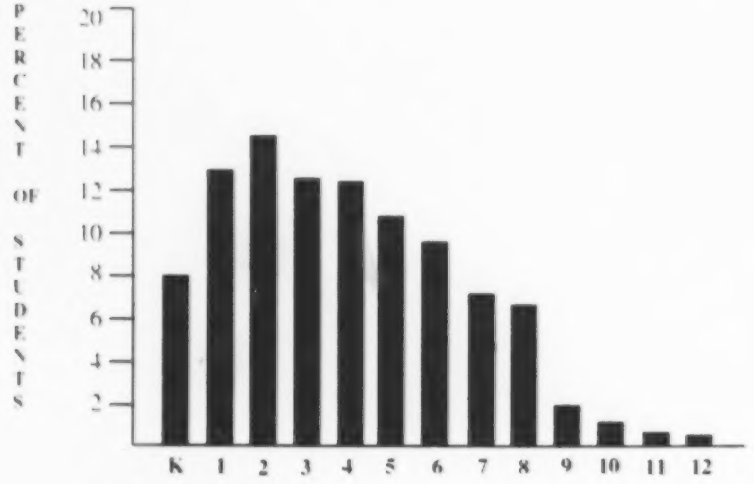
WHAT IS THE INVOLVEMENT IN ARKANSAS CHAPTER 1?

In FY 1990, Arkansas Chapter 1 programs were administered by 312 LEAs, 4 Educational Co-ops who administer 16 LEAs, and 2 institutions for neglected and delinquent.

A total of 67,199 students participated in one or more public and non-public Chapter 1 programs. In addition, 292 students received services in two state administered institutions for neglected or delinquent children. Administrative and technical assistance services were provided by the Arkansas Department of Education, specifically the Chapter 1 staff. Additional assistance was provided by the Region E Technical Assistance Center. The center is located in Denver and is funded by the federal government to provide assistance to state and local Chapter 1 programs.

WHO DOES CHAPTER 1 SERVE?

There were 67,199 students who received Chapter 1 services ir FY 90. The number of participants in Chapter 1 programs decreased by .01 percent from FY 89.



Arkansas Chapter 1 participants continued to be concentrated in the early elementary grades with the next highest concentration in grades 4-6.

WHAT IS THE DISTRIBUTION OF SIZE OF SCHOOLS IN ARKANSAS?

ENROLLMENT OF LEA	NUMBER	PERCENT
Less than 100	12	3.66
101 - 200	33	10.06
201 - 500	107	32.62
501 - 1,000	83	25.31
1,001 - 2,000	48	14.63
2,001 - 5,000	40	12.20
5,001 - 10,000	5	1.52
Over 10,000	0	.00
TOTAL	328	100.00

46 percent of the schools in Arkansas have a total enrollment below 500 students.

HOW MANY OF THE LEAs PARTICIPATE IN CHAPTER 1?

EXTENT OF PARTICIPATION	NUMBER	PERCENT
Regular Term Only	292	89.02
Regular and Summer Terms	36	10.98
TOTAL	328	100.00

During the regular term, 292 LEAs and Co-op administered programs operated in Arkansas. An additional 36 LEAs and Co-op administered programs provided both regular and summer terms.

WHAT WAS THE NUMBER OF CHAPTER 1 ARKANSAS PUBLIC AND NON-PUBLIC SCHOOLS AND WHAT WAS THEIR ENROLLMENT BY LEVEL OF SCHOOL?

LEVEL OF	PUBLIC SCHOOLS		NON-PUBLIC SCHOOLS		TOTAL SCHOOLS	
SCHOOL	NUMBER	ENROLLMENT	NUMBER	ENROLLMENT	NUMBER	ENROLLMENT
High School	154	50,367	0	0	154	50,367
Junior High	87	36,146	0	0	87	36,146
Middle	50	22,623	0	0	50	22,623
Elementary	567	207,608	23	914	590	208,522
TOTAL	858	316,744	23	914	881	317,658

There were 20 less public schools with Chapter 1 in FY 90 than was operated in FY 89. The number of students enrolled increased by 8,663. The number of non-public schools decreased by 1, and the number of students enrolled decreased by 395. The Chapter 1 Management Program may have contributed to more realistic results.

WHAT IS THE ETHNIC DISTRIBUTION OF THE STUDENTS IN THE ARKANSAS PUBLIC SCHOOLS?

GRADE	WHITE				BLACK				OTHER				TOTAL			
LEVEL	MALE	PCT	FEM	PCT	MALE	PCT	FEM	PCT	MALE	PCT	FEM	PCT	MALE	PCT	FEM	PCT
K	13,299	74.29	12,194	74.04	4,365	24.38	4,072	24.73	238	1.33	203	1.23	17,902	100.00	16,469	100.00
1	13,756	73.21	12,300	72.80	4,764	25.36	4,358	25.80	269	1.43	237	1.40	18,789	100.00	16,895	100.00
2	13,416	74.52	12,388	74.20	4,352	24.17	4,104	24.58	235	1.31	203	1.22	18,003	100.00	16,695	100.00
3	13,364	74.48	12,351	74.09	4,324	24.10	4,097	24.57	256	1.42	223	1.34	17,944	100.00	16,671	100.00
4	13,338	74.16	12,362	73.73	4,403	24.48	4,177	24.91	245	1.36	227	1.36	17,986	100.00	16,766	100.00
5	13,488	74.45	12,478	73.29	4,391	24.24	4,325	25.40	237	1.31	223	1.31	18,116	100.00	17,026	100.00
6	13,088	74.63	12,351	74.00	4,219	24.06	4,144	24.83	230	1.31	196	1.17	17,537	100.00	16,691	100.00
7	13,519	74.01	12,254	73.98	4,481	24.53	4,084	24.66	266	1.46	226	1.36	18,266	100.00	16,564	100.00
8	13,321	75.06	12,460	74.52	4,204	23.69	4,049	24.22	222	1.25	211	1.26	17,747	100.00	16,720	100.00
9	12,822	76.38	12,051	75.28	3,763	22.42	3,739	23.36	202	1.20	218	1.36	16,787	100.00	16,008	100.00
10	12,481	76.19	11,549	75.18	3,703	22.60	3,636	23.67	198	1.21	177	1.15	16,382	100.00	15,362	100.00
11	11,692	77.34	11,052	76.72	3,225	21.34	3,177	22.05	200	1.32	177	1.23	15,117	100.00	14,406	100.00
12	10,798	76.32	10,342	75.59	3,173	22.42	3,125	22.84	178	1.26	214	1.57	14,149	100.00	13,681	100.00
TOTAL	168,382	74.93	156,132	74.37	53,367	23.75	51,087	24.33	2,976	1.32	2,735	1.30	224,725	100.00	209,954	100.00

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WHAT IS THE ETHNIC DISTRIBUTION OF THE STUDENTS IN THE CHAPTER 1 PROGRAMS DURING THE REGULAR TERM?

GRADE	WHITE				BLACK				OTHER				TOTAL			
LEVEL	MALE	PCT	FEM	PCT	MALE	PCT	FEM	PCT	MALE	PCT	FEM	PCT	MALE	PCT	FEM	PCT
K	1,615	50.96	1,019	45.15	1,534	48.41	1,217	53.92	20	.63	21	.93	3,169	100.00	2,257	100.00
1	3,028	59.47	2,064	56.56	2,007	39.41	1,561	42.78	57	1.12	24	.66	5,092	100.00	3,649	100.00
2	3,602	64.44	2,549	61.42	1,929	34.51	1,559	37.57	59	1.05	42	1.01	5,590	100.00	4,150	100.00
3	3,174	60.63	2,134	58.08	2,010	38.40	1,501	40.86	51	.97	39	1.06	5,235	100.00	3,674	100.00
4	2,946	61.85	2,098	57.65	1,775	37.27	1,499	41.20	42	.88	42	1.15	4,763	100.00	3,639	100.00
5	2,448	60.78	1,824	57.25	1,544	38.33	1,328	41.68	36	.89	34	1.07	4,028	100.00	3,186	100.00
6	2,275	59.90	1,655	57.77	1,486	39.13	1,177	41.08	37	.97	33	1.15	3,798	100.00	2,865	100.00
7	1,716	61.24	1,033	53.55	1,053	37.58	872	45.21	33	1.18	24	1.24	2,802	100.00	1,929	100.00
8	1,568	62.45	1,092	59.32	902	35.92	725	39.38	41	1.63	24	1.30	2,511	100.00	1,841	100.00
9	489	58.08	278	53.46	343	40.73	235	45.19	10	1.19	7	1.35	842	100.00	520	100.00
10	196	43.85	99	32.25	247	55.26	204	66.45	4	.89	4	1.30	447	100.00	307	100.00
11	118	37.82	75	35.88	190	60.90	131	62.68	4	1.28	3	1.44	312	100.00	209	100.00
12	81	37.33	52	31.14	134	61.75	112	67.06	2	.92	3	1.80	217	100.00	167	100.00
TOTAL	23,256	59.93	15,972	56.25	15,154	39.05	12,121	42.69	396	1.02	300	1.06	38,806	100.00	28,393	100.00

42 percent of Chapter 1 participants belonged to an ethnic minority. This is the same as the percentage in FY 90. During FY 91, 75 percent of all Arkansas public school students were white (students from ethnic groups represented a larger share of Chapter 1 participants than they did in the general student population.) When examining participation by gender 57.7 percent of the Chapter 1 participants were male and 42.3 percent were female. The gender breakdown for all students in Arkansas public schools is 52 percent male and 48 percent female.

CHAPTER 1 PARTICIPANTS IN STATE INSTITUTIONS

INSTRUCTIONAL LEVEL	TOTAL NUMBER OF STUDENTS	PERCENT OF TOTAL POPULATION	NUMBER OF STUDENTS IN PROGRAM	PERCENT OF STUDENTS IN PROGRAM
1	2	.21	2	.68
2	20	2.05	12	4.11
3	73	7.47	28	9.59
4	103	10.54	19	6.51
5	129	13.20	24	8.22
6	94	9.62	23	7.88
7	171	17.50	62	21.23
8	161	16.48	59	20.21
9	119	12.18	29	9.93
10	55	5.63	25	8.56
11	18	1.84	8	2.74
12	32	3.28	1	.34
TOTAL	977	100.00	292	100.00

292 students from neglected and delinquent institutions participated in Chapter 1. This is 30 percent of the total number of students in the institution. In these institutions, Chapter 1 services focused primarily on students in the 7th, 8th and 9th grade age levels.

FUNDING:
FY 90 Chapter 1 funding was $47,573,412.90 for public school students. This was a 5.0 percent increase from FY 89.

PROGRAM CATEGORY	AMOUNT	PERCENT	FULL-TIME EQUIVALENTS (FTE)
Instructional Services	42,009,343.06	88.30	2,452.08
Pupil Support Services	354,099.17	.74	14.90
Educational Needs	103,618.37	.22	4.50
Administration	3,049,409.69	6.41	76.04
Improvement of Instruction	961,398.25	2.02	37.97
Planning and Evaluation	5,452.83	.01	0.00
Operation and Maintenance	316,507.61	.67	0.00
Non-public School Services	209,566.87	.44	6.13
Facilities Acquisition	195,118.17	.41	0.00
Indirect Cost	368,898.88	.78	0.00
TOTAL	47,573,412.90	100.00	2,591.62

Guidance, social work, transportation and health/nutrition were areas in which support services were provided.

INSTRUCTIONAL PROJECT	TOTAL PARTICIPANTS	TOTAL COST OF PROJECTS	PER PUPIL COST
Reading	40,407	$21,348,046.59	$ 528.33
Mathematics	27,821	10,397,757.59	373.74
Early Childhood	6,001	4,649,131.43	774.73
Language Arts	10,544	3,880,689.48	368.05
Other Compensatory Education	1,169	1,733,717.97	1,483.08
TOTAL	85,942	$42,009,343.06	$ 488.81

This is the second year the report has been broken down into the specific curriculum. In previous years there was a basic skills category -- it has been eliminated. Reading, mathematics, language arts and early childhood are the instructional components of Chapter 1 in Arkansas.

Average spending per student for all projects was $488.81, which represents an increase of 1.0 percent from the previous year.

Reading represents a 47 percent or majority participation of the students. Mathematics follows with a 32 percent participation, language arts 12 percent participation and early childhood 7 percent participation. Other compensatory education makes up the remainder.

AN ANALYSIS OF THE TOTAL DISTRIBUTION ON CHAPTER 1 EXPENDITURES FOR ALL STATE INSTITUTIONS 1988-89

EXPENDITURE CATEGORY	AMOUNT	PERCENT
Instructional Services	$240,344.02	91.06
Indirect Cost	10,000.00	3.79
Administration	9,308.41	3.53
Improvement of Instruction	4,078.71	1.54
Planning and Evaluation	200.00	.08
TOTAL	$263,931.14	100.00

THE FREQUENCY AND COST OF VARIOUS KINDS OF STAFF MEMBERS EMPLOYED IN CHAPTER 1 PROGRAMS-REGULAR TERM

JOB CLASSIFICATION	NUMBER OF FTE	PERCENT	TOTAL COST
Language Arts Teacher	65.37	2.52	1,221,732.55
Early Childhood Teacher	25.83	1.00	480,221.97
Reading Teacher	491.60	18.97	10,992,906.73
Mathematics Teacher	192.90	7.44	4,183,660.24
Non-public	6.13	.24	100,076.66
Other Teacher	29.98	1.16	562,100.54
Chapter 1 Coordinator	44.75	1.73	1,462,820.98
Subject Area Supervisor	14.60	.56	452,187.29
Social Worker	14.86	.57	186,327.23
Teacher Aide	1,631.56	62.95	12,170,976.93
Bookkeeper	6.11	.23	108,354.17
Administrative Clerk	23.80	.92	376,756.57
Instructional Clerk	14.49	.56	145,524.26
Parent Coordinator	25.64	.99	288,655.32
Hippy Coordinator	3.80	.15	96,597.00
Guidance Counselor	.20	.01	6,375.00
TOTAL	2,591.62	100.00	32,835,273.44

Parent involvement is an integral part of a successful Chapter 1 program. FTE parent coordinators increased by 82.8 percent.

HOW IS ACHIEVEMENT MEASURED?

Achievement gains resulting from Chapter 1 services are reported by all Arkansas Chapter 1 districts each year using a Normal Curve Equivalent (NCE) scale, in which scores range from 0 to 100. NCE scores allow results of different tests to be combined on a common scale. Without the benefit of supplementary services such as provided by Chapter 1, a student is expected to have zero NCE growth during the year, or to stay at the same percentile rank. Any increase in percentile rank or any NCE growth greater than zero is assumed to be the result of the extra services provided and represents more than a year's gain in achievement.

The following summary of Arkansas Chapter 1 achievement gains is based on students who were tested on a spring (pretest) to-spring (post-test) cycle on an annual basis.

1990 ACHIEVEMENT INFORMATION IN READING

GRADE LEVEL	PARTICIPANTS	NUMBER TAKING TEST	PRETEST NCE MEAN		POST-TEST NCE MEAN		GAIN NCE MEAN		NUMBER GAIN 1+ NCE	
			BASIC	ADV	BASIC	ADV	BASIC	ADV	BASIC	ADV
2	8,086	5,599	36.0	37.4	38.3	38.4	2.3	1.0	2,882	2,708
3	6,983	5,198	33.4	33.6	34.1	34.8	0.7	1.2	2,659	2,721
4	6,252	4,751	32.9	33.6	39.4	40.1	6.5	6.5	2,922	2,785
5	5,308	4,149	35.6	36.0	36.3	35.8	0.7	-0.2	2,045	1,968
6	4,872	3,813	33.6	33.0	38.1	37.5	4.5	4.5	2,193	2,098
7	2,831	2,156	35.5	34.1	35.2	34.2	-0.3	0.1	996	1,027
8	2,457	1,932	33.4	33.3	36.8	37.2	3.3	3.9	1,049	1,109
9	642	462	33.6	33.2	38.4	38.0	4.8	4.8	219	235
10	280	166	34.0	31.9	31.8	29.0	-2.2	-2.9	66	76
11	274	176	29.0	27.1	29.6	28.7	0.7	1.6	76	85
12	220	132	28.8	25.6	30.7	25.9	1.9	0.3	60	83
TOTAL	38,205	28,534	34.3	34.5	36.9	36.9	2.6	2.4	15,167	14,895

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1990 ACHIEVEMENT INFORMATION IN MATHEMATICS

GRADE LEVEL	PARTICIPANTS	NUMBER TAKING TEST	PRETEST NCE MEAN		POST-TEST NCE MEAN		GAIN NCE MEAN		NUMBER GAIN 1+ NCE	
			BASIC	ADV	BASIC	ADV	BASIC	ADV	BASIC	ADV
2	3,947	2,772	38.2	35.7	44.7	41.4	6.5	5.7	1,612	1,425
3	4,188	3,094	36.5	35.9	40.1	39.1	3.5	3.2	1,621	1,626
4	4,264	3,146	35.1	34.8	42.7	41.3	7.6	6.5	1,997	1,819
5	3,874	2,999	36.9	35.7	40.2	36.1	3.3	0.5	1,607	1,413
6	3,545	2,760	36.0	32.4	42.9	38.1	6.9	5.7	1,641	1,556
7	1,815	1,325	39.0	36.9	40.3	39.7	1.3	2.8	690	662
8	1,771	1,309	36.5	36.5	40.7	38.3	4.2	1.8	738	675
9	583	403	39.3	35.8	41.4	38.7	2.1	2.9	223	201
10	239	147	35.5	31.1	36.5	31.1	1.1	0.0	66	75
11	137	67	38.7	5.8	38.1	8.7	-0.6	2.9	28	25
12	108	32	34.8	0.0	43.3	5.2	8.5	5.2	19	13
TOTAL	24,471	18,054	36.8	35.0	41.8	38.9	5.0	3.9	10,242	9,490

1990 ACHIEVEMENT INFORMATION IN LANGUAGE ARTS

GRADE LEVEL	PARTICIPANTS	NUMBER TAKING TEST	PRETEST NCE MEAN		POST-TEST NCE MEAN		GAIN NCE MEAN		NUMBER GAIN 1+ NCE	
			BASIC	ADV	BASIC	ADV	BASIC	ADV	BASIC	ADV
2	1,371	1,004	34.3	17.6	40.1	17.9	5.8	0.2	529	460
3	1,348	1,045	35.2	17.0	37.6	17.0	2.5	0.0	472	478
4	1,220	939	32.3	13.5	35.8	15.4	3.5	1.9	534	469
5	984	733	32.8	12.4	33.9	12.8	1.1	0.4	389	365
6	1,107	885	31.8	11.7	36.5	12.6	4.7	0.9	448	468
7	1,232	927	38.0	16.9	39.2	17.0	1.2	0.1	503	335
8	1,170	892	35.5	14.9	40.4	16.2	4.9	1.3	539	386
9	399	287	36.6	15.5	39.1	16.2	2.5	0.8	159	122
10	410	229	36.5	14.7	39.1	15.9	2.6	1.2	109	101
11	219	164	34.4	9.6	33.4	11.8	-1.0	2.1	78	86
12	144	76	34.8	8.0	36.4	6.8	1.6	-1.1	51	48
TOTAL	9,604	7,181	34.5	14.8	37.8	15.5	3.3	0.7	3,811	3,318

1990 ACHIEVEMENT INFORMATION IN EARLY CHILDHOOD

GRADE LEVEL	PARTICIPANTS	NUMBER TAKING TEST	PRETEST NCE MEAN		POST-TEST NCE MEAN		GAIN NCE MEAN		NUMBER GAIN 1+ NCE	
			BASIC	ADV	BASIC	ADV	BASIC	ADV	BASIC	ADV
P	39	0	*.*	*.*	*.*	*.*	*.*	*.*	0	0
K	4,181	38	0.0	0.0	0.0	0.0	0.0	0.0	0	0
1	2,651	45	0.0	0.0	39.2	41.6	39.2	41.6	0	0
TOTAL	6,871	83	0.0	0.0	21.3	22.6	21.3	22.6	0	0

Reading, language arts and mathematics programs across Arkansas were effective in improving the achievement of participants. Average NCE gains across all grades were positive, except reading, advanced skills in grade 5, basic skills in grade 7, and basic and advanced skills in grade 10.

In mathematics, only grade 11 showed a loss in basic skills. While in language arts, grade 11 showed losses in basic skills and grade 12 showed losses in advanced skills. The language arts can be evaluated using either language tests or reading scores. If reading is used the advanced skills must be reported.

Across grades 2-12, Arkansas Chapter 1 students increased their reading scores 2.6 NCEs and their language arts scores increased 3.3 NCEs. In mathematics, Arkansas Chapter 1 participants increased their scores 5.0 in basic skills and 3.9 in advanced skills.

Prepared in accordance with: Public Law 100-297.